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Triphenyltetrazolium Chloride,

$C_{19}H_{15}ClN_4$ 334.80 CAS RN[®]: 298-96-4.—White to yellowish, crystalline powder. Soluble in about 10 parts of water and of alcohol; slightly soluble in acetone; insoluble in ether. Usually contains solvent of crystallization, and when dried at 105° it melts at about 240°, with decomposition.

Solubility: Separate 100-mg portions dissolve completely in 10 mL of water and in 10 mL of alcohol, respectively, to yield solutions that are clear, or practically so.

Loss on Drying (731): Dry it at 105° to constant weight: it loses not more than 5.0% of its weight.

Residue on Ignition (Reagent test): negligible, from 100 mg.

Sensitiveness: Dissolve 10 mg in 10 mL of dehydrated alcohol (A). Then dissolve 10 mg of dextrose in 20 mL of dehydrated alcohol (B). To 0.2 mL of B add 1 mL of dehydrated alcohol and 0.5 mL of dilute tetramethylammonium hydroxide TS (1 volume diluted with 9 volumes of dehydrated alcohol), then add 0.2 mL of A: a pronounced red color develops within about 10 minutes.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
TRIPHENYLTETRAZOLIUM CHLORIDE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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